

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1. (Cancelled)

Claim 2. (Currently Amended) ~~The lamp device for a vehicle according to claim 1,~~

A lamp device for a vehicle comprising:

a light source;  
a reflector in which a reflection surface is a free curved surface;  
a lens having no prism; and  
a reflected light by said reflector transmitting through said lens so as to be irradiated to an external section in accordance with a target light distribution pattern,  
wherein said lens is formed in a recess shape in a vertical cross section and a horizontal cross section, and wherein the reflection surface of said reflector is structured such that the a vertical cross section of the reflection surface and the a horizontal cross section of the reflection surface each substantially have a shape that is part of an oval larger than a front surface and a back surface of said lens.

new  
issues

new  
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Claim 3. (Cancelled)

Claim 4 (Original) The lamp device for a vehicle according to claim 2, wherein a free curved surface formed on the reflection surface of said reflector is a non-uniform rational B-spline surface (NURBS).

Claim 5. (Cancelled)

Claim 6. (Currently Amended) The lamp device for a vehicle according to claim 2, wherein a torus curved surface or a free curved surface is formed on at least one of a the front surface and a the back surface of said lens.

Claim 7. (Cancelled)

Claim 8. (Currently Amended) The lamp device for a vehicle according to claim 4, wherein a torus curved surface or a free curved surface is formed on at least one of a the front surface and a the back surface of said lens.

Claim 9. (Cancelled)

Claim 10. (Currently Amended) The lamp device for a vehicle according to claim 2, wherein a torus curved surface or a free curved surface is formed on a the front surface and a the back surface of said lens.

Claim 11. (Cancelled)

Claim 12. (Currently Amended) The lamp device for a vehicle according to claim 4, wherein a torus curved surface or a free curved surface is formed on a the front surface and a the back surface of said lens.

Claim 13. (Currently Amended) The lamp device for a vehicle according to claim 4 2, wherein the lens comprises a first recess shape on a the front surface of the lens and a second recess shape on the back surface of the lens.

Claim 14. (Currently Amended) The lamp device for a vehicle according to claim 4 2, wherein the lens comprises a first surface having the recess shape and a second surface having a convex shape.

Claim 15. (Currently Amended) The lamp device for a vehicle according to claim 14, ~~wherein~~ wherein the first surface is disposed facing the reflector.